Terms used **cluster failure model** Found **37,747** of **167,655**

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1 Analysis and implementation of software rejuvenation in cluster systems
Kalyanaraman Vaidyanathan, Richard E. Harper, Steven W. Hunter, Kishor S. Trivedi
June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(983.05 KB) Additional Information: full citation, abstract, references, citings

Several recent studies have reported the phenomenon of "software aging", one in which the state of a software system degrades with time. This may eventually lead to performance degradation of the software or crash/hang failure or both. "Software rejuvenation" is a pro-active technique aimed to prevent unexpected or unplanned outages due to aging. The basic idea is to stop the running software, clean its internal state and restart it. In this paper, we discuss software rejuvenation as applied to ...

2 Quantifying and Improving the Availability of High-Performance Cluster-Based Internet Services
Kiran Nagaraja, Neeraj Krishnan, Ricardo Bianchini, Richard P. Martin, Thu D. Nguyen
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(306.01 KB) Additional Information: full citation, abstract

Cluster-based servers can substantially increase performance when nodes cooperate to globally manage resources. However, in this paper we show that cooperation results in a substantial availability loss, in the absence of high-availability mechanisms. Specifically, we show that a sophisticated cluster-based Web server, which gains a factor of 3 in performance through cooperation, increases service unavailability by a factor of 10 over a non-cooperative version. We then show how to augment this W ...

3 Performance and dependability evaluation of scalable massively parallel computer systems with conjoint simulation
Axel Hein, Mario Dal Cin
October 1998 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(501.59 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Computer systems are becoming more and more a part of our daily life; business and

industry rely on their service, and the health of human beings depends on their correct functioning. Computer systems used for critical tasks have to be carefully designed and tested during the early design stage, the prototype phase, and their operational life. Methods and tools are required to support and facilitate this vital task. In this article, we tackle the issue of system-level performance and depen ...

Keywords: fault-tolerant and large-scale computer systems, hierarchical model design, object-oriented modeling, process-based simulation, timed Petri nets

4 Improving cluster availability using workstation validation

Taliver Heath, Richard P. Martin, Thu D. Nguyen

June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(201.72 KB) Additional Information: full citation, abstract, references

We demonstrate a framework for improving the availability of cluster based Internet services. Our approach models Internet services as a collection of interconnected components, each possessing well defined interfaces and failure semantics. Such a decomposition allows designers to engineer high availability based on an understanding of the interconnections and isolated fault behavior of each component, as opposed to ad-hoc methods. In this work, we focus on using the entire commodity workstation ...

5 On the handoff arrival process in cellular communications

Philip V. Orlik, Stephen S. Rappaport

March 2001 **Wireless Networks**, Volume 7 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(156.96 KB) Additional Information: full citation, references, index terms

Keywords: cellular communications, handoffs handovers, telecommunications traffic performance

6 Wide area traffic: the failure of Poisson modeling

Vern Paxson, Sally Floyd

June 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 3

Publisher: IEEE Press

Full text available: pdf(2.18 MB) Additional Information: full citation, references, citings, index terms

7 Fastpath Optimizations for Cluster Recovery in Shared-Disk Systems

Randal Burns

November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available: pdf(176.70 KB) Additional Information: full citation, abstract

We describe the design and implementation of a clustering service for a high-performance, shared-disk file system. The service provides failure detection and recovery, reliableend-to-end messaging, and a centralized and recoverable management interface. We implement novel optimizations in the voting protocol that resolves cluster membership. Optimizations allow clusters to form as quickly as possible without introducing livelock or

requiring timeout parameters to be tuned carefully. Our treatmen ...

8 Simulation potpouri: Simulation model of the cable data network for the analysis and evaluation of network performance

D. Gan, R. Paterson

December 1982 **Proceedings of the 14th conference on Winter Simulation - Volume 2**

Publisher: Winter Simulation Conference

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract

A Cable Data Network (CDN) simulation model was developed on VAX 11/780 computer facility in PASCAL as a part of the MX-C³ system study. Its primary purpose was to supplement theoretical analysis and to evaluate the impact of changing the CDN (sub)system requirements on the performance measured primarily in terms of network reaction time and queue (buffer) buildup at the CDN nodes. The validated simulation model provided a powerful tool in rapidly determining the quantitati ...

9 Partition testing, stratified sampling, and cluster analysis

Andy Podgurski, Charles Yang

December 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1st ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '93**, Volume 18 Issue 5

Publisher: ACM Press

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a new approach to reducing the manual labor required to estimate software reliability. It combines the ideas of *partition testing* methods with those of *stratified sampling* to reduce the sample size necessary to estimate reliability with a given degree of precision. Program executions are stratified by using automatic *cluster analysis* to group those with *similar features*. We describe the conditions under which stratification is effective for estimating softw ...

10 Method for distributed transaction commit and recovery using Byzantine Agreement within clusters of processors

C. Mohan, R. Strong, S. Finkelstein

July 1985 **ACM SIGOPS Operating Systems Review**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references

This paper describes an application of Byzantine Agreement [DoSt82a, DoSt82e, LyFF82] to distributed transaction commit. We replace the second phase of one of the commit algorithms of [MoLi83] with Byzantine Agreement, providing certain trade-offs and advantages at the time of commit and providing speed advantages at the time of recovery from failure. The present work differs from that presented in [DoSt82b] by increasing the scope (handling a general tree of processes, and multi-cluster transac ...

11 Method for distributed transaction commit and recovery using Byzantine Agreement within clusters of processors

C. Mohan, R. Strong, S. Finkelstein

August 1983 **Proceedings of the second annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(939.80 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application of Byzantine Agreement [DoSt82a, DoSt82c, LyFF82] to distributed transaction commit. We replace the second phase of one of the commit

algorithms of [MoLi83] with Byzantine Agreement, providing certain trade-offs and advantages at the time of commit and providing speed advantages at the time of recovery from failure. The present work differs from that presented in [DoSt82b] by increasing the scope (handling a general tree of processes, and multi-cluster tr ...

12 Technical papers: consistency management and quality assurance: Automated support for classifying software failure reports

Andy Podgurski, David Leon, Patrick Francis, Wes Masri, Melinda Minch, Jiayang Sun, Bin Wang

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: pdf(1.06 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

This paper proposes automated support for classifying reported software failures in order to facilitate prioritizing them and diagnosing their causes. A classification strategy is presented that involves the use of supervised and unsupervised pattern classification and multivariate visualization. These techniques are applied to profiles of failed executions in order to group together failures with the same or similar causes. The resulting classification is then used to assess the frequency and s ...

13 Machine Learning Methods for Predicting Failures in Hard Drives: A Multiple-Instance Application

Joseph F. Murray, Gordon F. Hughes, Kenneth Kreutz-Delgado

September 2005 **The Journal of Machine Learning Research**, Volume 6

Publisher: MIT Press

Full text available: pdf(274.51 KB) Additional Information: full citation, abstract

We compare machine learning methods applied to a difficult real-world problem: predicting computer hard-drive failure using attributes monitored internally by individual drives. The problem is one of detecting rare events in a time series of noisy and nonparametrically-distributed data. We develop a new algorithm based on the multiple-instance learning framework and the naive Bayesian classifier (mi-NB) which is specifically designed for the low false-alarm case, and is shown to have promising p ...

14 Yield modeling and BEOL fundamentals

José Pineda de Gyvez

March 2001 **Proceedings of the 2001 international workshop on System-level interconnect prediction**

Publisher: ACM Press

Full text available: pdf(850.38 KB) Additional Information: full citation, abstract, references, citings, index terms

The advent of deep submicron technologies with larger die sizes lends itself to an increase in fabrication cost. An appropriate yield forecast renders significant benefits in both time-to-market and manufacturing cost prediction. Yield forecasting is essential for the development of new products as it effectively shows if a design is feasible of meeting its cost objectives or not. In mature manufacturing processes, spot defects are the main detractors in the successful outcome of an IC. The ...

15 A failure and overload tolerance mechanism for continuous media servers

Rajesh Krishnan, Dinesh Venkatesh, Thomas D. C. Little

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: Additional Information:

pdf(2.23 MB) full citation, references, index terms

Keywords: caching, clustered video servers, content insertion, fault tolerance, interactive video-on-demand, overload tolerance, rate adaptive stream merging, stream clustering

16 A checkpoint protocol for an entry consistent shared memory system

Nuno Neves, Miguel Castro, Paulo Guedes
August 1994 **Proceedings of the thirteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

17 Development of generic simulation models to evaluate wafer fabrication cluster tools

Neal G. Pierce, Michael J. Drevna
December 1992 **Proceedings of the 24th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(449.87 KB) Additional Information: full citation, references, citings, index terms

18 Industry/government track papers: Effective localized regression for damage detection in large complex mechanical structures

Aleksandar Lazarevic, Ramdev Kanapady, Chandrika Kamath
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Publisher: ACM Press
Full text available: pdf(597.35 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel data mining technique for the efficient damage detection within the large-scale complex mechanical structures. Every mechanical structure is defined by the set of finite elements that are called structure elements. Large-scale complex structures may have extremely large number of structure elements, and predicting the failure in every single element using the original set of natural frequencies as features is exceptionally time-consuming task. Traditional data m ...

Keywords: clustering, damage detection, localized regression, mechanical structures, structure elements

19 Measurement and modeling of computer reliability as affected by system activity

R. K. Iyer, D. J. Rossetti, M. C. Hsueh
August 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper demonstrates a practical approach to the study of the failure behavior of computer systems. Particular attention is devoted to the analysis of permanent failures. A number of important techniques, which may have general applicability in both failure and workload analysis, are brought together in this presentation. These include: smeared averaging of the workload data, clustering of like failures, and joint analysis of workload and failures. Approximately 17 percent of all failure ...

20 Efficient estimation of the mean time between failures in non-regenerative dependability models

Peter W. Glynn, Philip Heidelberger, Victor F. Nicola, Perwez Shahabuddin
December 1993 **Proceedings of the 25th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(627.98 KB) Additional Information: full citation, references, citings

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21 A framework for time indexing in sensor networks

Guanghui He, Rong Zheng, Indranil Gupta, Lui Sha
August 2005 **ACM Transactions on Sensor Networks (TOSN)**, Volume 1 Issue 1
Publisher: ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

In this article, we define the *time-indexing* problem as the in-network storage and querying of sensor network data based solely on the time attribute. We argue qualitatively why existing storage schemes may be insufficient as solutions. We then present, analyze, and evaluate novel and lightweight solutions to both the storage and the querying subproblems for time indexing. First, the time-indexed storage problem is formally defined and two formulations are presented seeking to optimize ge ...

Keywords: Time indexing, information retrieval, rendezvous point

22 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms

23 E-textiles: Challenges and opportunities in electronic textiles modeling and optimization

Diana Marculescu, Radu Marculescu, Pradeep K. Khosla
June 2002 **Proceedings of the 39th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(769.90 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper addresses an emerging new field of research that combines the strengths and capabilities of electronics and textiles in one: electronic textiles, or e-textiles. E-textiles, also called Smart Fabrics, have not only "wearable" capabilities like any other garment, but also local monitoring and computation, as well as wireless communication capabilities. Sensors and simple computational elements are embedded in e-textiles, as well as built

into yarns, with the goal of gathering sensitive ...

24 Active learning for automatic classification of software behavior

James F. Bowring, James M. Rehg, Mary Jean Harrold

July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '04**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: pdf(567.57 KB) Additional Information: full citation, abstract, references, index terms

A program's behavior is ultimately the collection of all its executions. This collection is diverse, unpredictable, and generally unbounded. Thus it is especially suited to statistical analysis and machine learning techniques. The primary focus of this paper is on the automatic classification of program behavior using execution data. Prior work on classifiers for software engineering adopts a classical *batch-learning* approach. In contrast, we explore an *active-learning* paradigm for ...

Keywords: Markov models, machine learning, software behavior, software testing

25 Evaluation of cluster tool throughput for thin film head production

Eric J. Koehler, Timbur M. Wulf, Alvin C. Bruska, Marvin S. Seppanen

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**

Publisher: ACM Press

Full text available: pdf(83.62 KB) Additional Information: full citation, references, citings, index terms

26 High quality behavioral verification using statistical stopping criteria

A. Hajjar, T. Chen, I. Munn, A. Andrews, M. Bjorkman

March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Publisher: IEEE Press

Full text available: pdf(143.66 KB) Additional Information: full citation, references, citings, index terms

Keywords: VHDL, behavioral model verification, statistical stopping rules

27 Redundancy in model specifications for discrete event simulation

Richard E. Nance, C. Michael Overstreet, Ernest H. Page

July 1999 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 9 Issue 3

Publisher: ACM Press

Full text available: pdf(295.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Although redundancy in model specification generally has negative connotations, we offer arguments for revising those convictions. Defining "representational redundancy" as the inclusion of any symbols not required to fulfill the study objectives, we cite several sources of redundancy, classified as accidental or intentional, that contribute positively to the model development tasks. Comparative benefits and detriments are discussed briefly. Focusing on the most interesting sour ...

Keywords: discrete event simulation, model analysis, model development environment, uses of redundancy

28 Simulation model decomposition by factor analysis

Kenneth W. Bauer, Bipin Kochar, Joseph J. Talavage
December 1985 **Proceedings of the 17th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(319.81 KB) Additional Information: full citation, abstract, references, citings

This paper offers a solution to the simulation model decomposition problem discussed briefly in Overstreet and Nance [1] and elaborated in detail in Overstreet [2]. The solution scheme involves the use of principal components analysis. We offer an example of the technique on a simple directed graph and then demonstrate the method on a small model given in Overstreet [2].

29 The pebble crurching model for load balancing in concurrent hypercube ensembles

J. Barhen, S. Gulati, S. S. Iyengar
January 1988 **Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1**
Publisher: ACM Press
Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

The successful development of fifth generation systems require enormous computational capability and flexibility necessitating the ability to achieve operational responses in hard real-time through optimal resource utilization. This entails dynamically balancing the computational load among all the processing nodes in the system. We propose a graph-theoretic, receiver-initiated, distributed protocol for dynamic load balancing protocol in large-scale hypercube ensembles. Using attributed hyp ...

30 Research sessions: consistency and availability: Highly available, fault-tolerant, parallel dataflows

Mehul A. Shah, Joseph M. Hellerstein, Eric Brewer
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(210.17 KB) Additional Information: full citation, abstract, references, citings

We present a technique that masks failures in a cluster to provide high availability and fault-tolerance for long-running, parallelized dataflows. We can use these dataflows to implement a variety of continuous query (CQ) applications that require high-throughput, 24x7 operation. Examples include network monitoring, phone call processing, click-stream processing, and online financial analysis. Our main contribution is a scheme that carefully integrates traditional query processing techniques for ...

31 A taxonomy of wireless micro-sensor network models

Sameer Tilak, Nael B. Abu-Ghazaleh, Wendi Heinzelman
April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2
Publisher: ACM Press
Full text available: pdf(66.31 KB) Additional Information: full citation, abstract, references, citings, index terms

In future smart environments, wireless sensor networks will play a key role in sensing, collecting, and disseminating information about environmental phenomena. Sensing applications represent a new paradigm for network operation, one that has different goals from more traditional wireless networks. This paper examines this emerging field to

classify wireless micro-sensor networks according to different communication functions, data delivery models, and network dynamics. This taxonomy will aid in ...

32 Computing the performability of layered distributed systems with a management architecture

Olivia Das, C. Murray Woodside

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(942.77 KB) Additional Information: full citation, abstract, references

This paper analyzes the performability of client-server applications that use a separate fault management architecture for monitoring and controlling of the status of the application software and hardware. The analysis considers the impact of the management components and connections, and their reliability, on performability. The approach combines minpath algorithms, Layered Queueing analysis and non-coherent fault tree analysis techniques for efficient computation of expected reward rate of the ...

Keywords: distributed systems, layered queueing networks, non-coherent fault trees, performability, system fault-tolerance

33 A Self-Organizing Storage Cluster for Parallel Data-Intensive Applications

Hong Tang, Aziz Gulbeden, Jingyu Zhou, William Strathearn, Tao Yang, Lingkun Chu

November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available: pdf(330.26 KB) Additional Information: full citation, abstract

Cluster-based storage systems are popular for data-intensive applications and it is desirable yet challenging to provide incremental expansion and high availability while achieving scalability and strong consistency. This paper presents the design and implementation of a self-organizing storage cluster called Sorrento, which targets data-intensive workload with highly parallel requests and low write-sharing patterns. Sorrento automatically adapts to storage node joins and departures, and the sys ...

34 Finding Latent Code Errors via Machine Learning over Program Executions

Yuriy Brun, Michael D. Ernst

May 2004 **Proceedings of the 26th International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: pdf(183.04 KB) Additional Information: full citation, abstract, citings

This paper proposes a technique for identifying programproperties that indicate errors. The technique generates machinelearning models of program properties known to resultfrom errors, and applies these models to program propertiesof user-written code to classify and rank propertiesthat may lead the user to errors. Given a set of propertiesproduced by the program analysis, the technique selectssubset of properties that are most likely to reveal an error.An implementation, the Fault Invariant Cla ...

35 A scalable, robust network for parallel computing

Peter Cappello, Dimitros Mourloukos

June 2001 **Proceedings of the 2001 joint ACM-ISCOPE conference on Java Grande**

Publisher: ACM Press

Full text available: pdf(822.74 KB) Additional Information: full citation, abstract, references, index terms

CX, a network-based computational exchange, is presented. The system's design

integrates variations of ideas from other researchers, such as work stealing, non-blocking tasks, eager scheduling, and space-based coordination. The object-oriented API is simple, compact, and cleanly separates application logic from the logic that supports interprocess communication and fault tolerance. Computations, of course, run to completion in the presence of computational hosts that join and leave the ongoin ...

Keywords: Java, network computing, parallel processing, robust, scalable

36 Industry/government track paper: Dynamic syslog mining for network failure monitoring

Kenji Yamanishi, Yuko Maruyama

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(684.40 KB) Additional Information: full citation, abstract, references, index terms

Syslog monitoring technologies have recently received vast attentions in the areas of network management and network monitoring. They are used to address a wide range of important issues including network failure symptom detection and event correlation discovery. Syslogs are intrinsically *dynamic* in the sense that they form a time series and that their behavior may change over time. This paper proposes a new methodology of *dynamic syslog mining* in order to detect failure symptoms w ...

Keywords: correlation analysis, failure detection, model selection, probabilistic modeling, syslog mining

37 A characterization of the simple failure-biasing method for simulations of highly reliable Markovian Systems

Marvin K. Nakayama

January 1994 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(2.25 MB) Additional Information: full citation, abstract, references, citings, index terms

Simple failure biasing is an importance-sampling technique used to reduce the variance of estimates of performance measures and their gradients in simulations of highly reliable Markovian systems. Although simple failure biasing yields bounded relative error for the performance measure estimate when the system is balanced, it may not provide bounded relative error when the system is unbalanced. In this article, we provide a characterization of when the simple failure-biasing meth ...

Keywords: balanced failure biasing, gradient estimation, highly reliable systems, importance sampling, likelihood ratios, simple failure biasing

38 Capturing, indexing, clustering, and retrieving system history

Ira Cohen, Steve Zhang, Moises Goldszmidt, Julie Symons, Terence Kelly, Armando Fox

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available: pdf(516.41 KB) Additional Information: full citation, abstract, references, index terms

We present a method for automatically extracting from a running system an indexable *signature* that distills the essential characteristic from a system state and that can be

subjected to automated clustering and similarity-based retrieval to identify when an observed system state is similar to a previously-observed state. This allows operators to identify and quantify the frequency of recurrent problems, to leverage previous diagnostic efforts, and to establish whether problems seen at dif ...

Keywords: bayesian networks, clustering, information retrieval, performance objectives, signatures

39 Bug localization: SOBER: statistical model-based bug localization

Jiawei Han, Samuel P. Midkiff
September 2005 **Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13**
Publisher: ACM Press
Full text available: pdf(214.23 KB) Additional Information: full citation, abstract, references, index terms

Automated localization of software bugs is one of the essential issues in debugging aids. Previous studies indicated that the evaluation history of program predicates may disclose important clues about underlying bugs. In this paper, we propose a new statistical model-based approach, called SOBER, which localizes software bugs without any prior knowledge of program semantics. Unlike existing *statistical debugging* approaches that select predicates correlated with program failures, SOBER mo ...

Keywords: localization metrics, statistical debugging

40 A hierarchical simulation environment for mobile wireless networks

R. Bagrodia, M. Gerla, L. Kleinrock, J. Short, T.-C. Tsai
December 1995 **Proceedings of the 27th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(839.23 KB) Additional Information: full citation, references, citings, index terms

Results for "((cluster<and>failure)<and>repair rate) <and> (pyr >= 1950 <and> pyr <..."

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Leite da Silva, A.M.; Coelho, J.; Melo, A.C.G.;
Generation, Transmission and Distribution [see also IEE Proceedings-Generation, Transmission ar
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Volume 139, Issue 3, May 1992 Page(s):277 - 285
AbstractPlus | Full Text: PDF(680 KB) IEE JNL

2. **Validating complex computer system availability models**
Wein, A.S.; Sathaye, A.;
Reliability, IEEE Transactions on
Volume 39, Issue 4, Oct. 1990 Page(s):468 - 479
Digital Object Identifier 10.1109/24.58724
AbstractPlus | Full Text: PDF(1032 KB) IEEE JNL

3. **A fault-tolerant continuous media disk array under arbitrary-rate search**
Yuyoung Oh; Sungsoo Kim; Jai-Hoon Kim;
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Volume 46, Issue 2, May 2000 Page(s):334 - 342
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4. **Bounding availability of repairable systems**
Muntz, R.R.; De Souza e Silva, E.; Goyal, A.;
Computers, IEEE Transactions on
Volume 38, Issue 12, Dec. 1989 Page(s):1714 - 1723
Digital Object Identifier 10.1109/12.40849
AbstractPlus | Full Text: PDF(872 KB) IEEE JNL

5. **Reliability analysis of clustered computing systems**
Mendiratta, V.B.;
Software Reliability Engineering, 1998. Proceedings. The Ninth International Symposium on
4-7 Nov. 1998 Page(s):268 - 272
Digital Object Identifier 10.1109/ISSRE.1998.730890
AbstractPlus | Full Text: PDF(64 KB) IEEE CNF

6. **Automated analysis of phased-mission reliability**
Dugan, J.B.;

Reliability, IEEE Transactions on
Volume 40, Issue 1, April 1991 Page(s):45 - 52, 55
Digital Object Identifier 10.1109/24.75332

AbstractPlus | Full Text: PDF(708 KB) IEEE JNL

7. **Fuzzy clustering and fuzzy sets for reliability analysis of recent distribution systems**
El-Sayed, M.A.H.;
Intelligent Engineering Systems, 1997. INES '97. Proceedings., 1997 IEEE International Conferenc
15-17 Sept. 1997 Page(s):277 - 282
Digital Object Identifier 10.1109/INES.1997.632430

AbstractPlus | Full Text: PDF(456 KB) IEEE CNF

8. **Fast simulation of highly dependable systems with general failure and repair processes**
Nicola, V.F.; Nakayama, M.K.; Heidelberger, P.; Goyal, A.;
Computers, IEEE Transactions on
Volume 42, Issue 12, Dec. 1993 Page(s):1440 - 1452
Digital Object Identifier 10.1109/12.260634

AbstractPlus | Full Text: PDF(1336 KB) IEEE JNL

9. **An efficient method for generating capacity reliability evaluation including the effect of plan**
Singh, C.; Chen, Q.;
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Volume 4, Issue 4, Nov. 1989 Page(s):1397 - 1404
Digital Object Identifier 10.1109/59.41690

AbstractPlus | Full Text: PDF(512 KB) IEEE JNL

10. **An enhanced integer simplicial optimization method for minimum cost spares for k-out-of-n**
Srivastava, V.K.; Fahim, A.;
Reliability, IEEE Transactions on
Volume 40, Issue 3, Aug. 1991 Page(s):265 - 270
Digital Object Identifier 10.1109/24.85435

AbstractPlus | Full Text: PDF(412 KB) IEEE JNL

11. **A conditional probability approach to the calculation of frequency and duration indices in cc evaluation**
Melo, A.C.G.; Pereira, M.V.F.; Leite da Silva, A.M.;
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IEE CNF	IEE Conference Proceeding
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